

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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#4

Applicant(s) : Hiroyuki Shinbata  
Serial No. : 09/287,406  
Filed : April 6, 1999  
For : Image Processing Method, Apparatus, and Storage Medium For Recognition Of Irradiation Area

Group Art Unit: TBA  
Examiner: TBA



Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

CERTIFICATE OF MAILING (37 C.F.R. 1.8a)

Sir:

1. Information Disclosure Statement;
2. Form PTO 1449;
3. Copies of 5 cited References;
4. Concise Explanation of Relevance (1 page); and
5. return receipt postcard

(along with any paper(s) referred to as being attached or enclosed) and this Certificate of Mailing are being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Respectfully submitted,

MORGAN & FINNEGAN, L.L.P.

Dated: April 23, 1999

By:

*Sandina M. Marino*  
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PATENT

Docket No. 1232-4532

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s) : Hiroyuki Shinbata  
Serial No. : 09/287,406 Group Art Unit: TBA  
Filed : April 6, 1999 Examiner: TBA  
For : Image Processing Method, Apparatus, and Storage Medium For Recognition Of  
Irradiation Area

**INFORMATION DISCLOSURE STATEMENT**

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-1449, a copy of which is enclosed, may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1. ☒ For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:

JP 2-42436, JP 2-66683 and JP 2-1080

2. ☐ For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.

3. ☐ Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in application Serial No. \_\_\_\_\_, filed \_\_\_\_\_.

4. ☒ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:

☒ 37 C.F.R. §1.97(b)(1), within three months of the filing date of the above-identified application or filing date of the continued prosecution application filed on \_\_\_\_\_; or

- ☐ 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application; or
- ☐ 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits, whichever event occurred last.
5. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below.
6. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):
- ☐ A check in the amount of \$240.00 is enclosed in payment of the fee.
- ☐ Charge the fee to Deposit Account No. 13-4500. Order No. \_\_\_\_\_. A  
DUPLICATE COPY OF THIS SHEET IS ATTACHED.
7. ☐ A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:
- a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and
- b. the attached petition requesting consideration of this Information Disclosure Statement; and
- c. the fee due under 37 C.F.R. §1.17(i)(1) which is paid as set forth in paragraph 10 below.
8. ☐ A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with:
- a. ☐ 37 C.F.R. §1.313(b)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue;
- b. ☐ 37 C.F.R. §1.313(b)(5), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue.
- c. The fee due under 37 C.F.R. §1.17(i)(1) is paid as set forth in paragraph 10 below.
9. ☐ I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

☐ I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

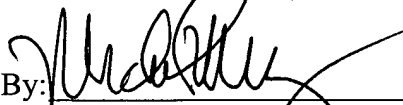
10. ☐ A check in the amount of \$130.00 is enclosed in payment of the fee due under 37 C.F.R. §1.17(i)(1).

☐ Charge the fee due under 37 C.F.R. §1.17(i)(1) to Deposit Account No. 13-4500. Order No. \_\_\_\_\_ A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

☒ The Assistant Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500. Order No. 1232-4532. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

MORGAN & FINNEGAN, L.L.P.

By:   
Michael M. Murray  
Registration No. 32537

Dated: April 22, 1999

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FORM: REC-PAT.NY

**Concise Explanation of Relevance**

U.S. Patent Application Serial No. 09/154,805 filed 9/17/98

U.S. Patent Application Serial No. 09/154,805 discloses the technique for judging presence/absence of an irradiation field diaphragm.

JP 2-66683 and 2-42436 (Corresponding to U.S. Pat. No. 4,992,663) and  
JP 2-1080 (corresponding to U.S. Patent No. 5,081,580)

JP 2-66683, 2-42436 and 2-1080 disclose the methods for extracting a linear component of an area based on a set of coordinate points each having a primary differential value equal to or larger than a certain threshold value.